

Metal Finishing Index to Volume 85

January–December, 1987

In this index, all material that appeared in Metal Finishing during 1987 is listed according to subject matter. A letter will be found following each listing indicating

the category in which the material was published, as follows: (B) Book, (D) Development/New Product, (M) Manufacturers' Literature, (P) Patent, (S) Shop Problem,

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Immersion Heater (D)	Mar/83
Infrared Heater (D)	Apr/90
Infrared Heater (M)	Apr/102
Heating and Cooling Coils (M)	Apr/102
Cabinet Ovens (M)	Apr/103
Liquid Chillers (D)	Jun/154
Shell and Tube Heat Exchanger (D)	Jun/159
Electric Immersion Heaters (D)	Jun/164
Water Chillers (D)	Jun/165
Heating/Cooling Coil (M)	Jun/191
Electric Heating Products (M)	Jun/194
Finisher's Feedback	Sep/67
Heating/Cooling Coils (D)	Sep/82
Liquid Chillers (M)	Sep/94
Industrial Electric Heaters (M)	Oct/105
Process Heat Recovery (M)	Dec/82

HIGH SOLIDS COATINGS

High Solids Coating (P)	Jan/77
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
High Solids Primer (P)	Mar/72
High Solids Coating (P)	Apr/71
Phenolic Resins for High-Solids Coatings (D)	Apr/81
High Solids Coatings (P)	Jul/62
High Solids Alkyd (D)	Jul/65
High-Solids Baking Enamel (M)	Jul/74
High Solids Waterborne (P)	Nov/114

HOT DIPPING

Hot Dipping Process (P)	Jan/78
Technical Developments in 1986/ Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Wet or Dry Galvanizing (S)	Mar/68
Hot Dip Coating Process (P)	Apr/72
Combined Hot Dipping & Vacuum Deposition (P)	May/70
Hot Dip Process (P)	Jun/174
Finisher's Feedback/Accidents and Hazards in Hot Dip Galvanizing	Aug/31
Hot Dipped Steel Sheet (P)	Sep/74
Aluminum Hot Dip (P)	Sep/81
Galvanizing Repair Compound (D)	Sep/91
Hot Dipped Coating (P)	Nov/115

LACQUERING

Wear Resistant Lacquer (P)	Jan/74
Polypropylene Lacquer (D)	Feb/107
Blushing Lacquer (S)	Jun/138
Acrylic Based Lacquer for Silver (D)	Jun/164
Non-Aqueous Lacquer (P)	Jun/177
Lacquering Process (P)	Oct/76
Substitute for Brass Flash (S)	Oct/82
Acrylic/Urethane Lacquer (D)	Nov/92
Thermosetting Lacquer (P)	Dec/70

MASKS AND STOP OFFS

Vinyl Dip Moldings (M)	Jan/93
Economical Masking (S)	Jan/102
Etch Resist (P)	Feb/97
Masks and Plugs (M)	Feb/120
SMOBC Platers' Tape (D)	May/78
Dry Film Photoresist (D)	Jun/159
Paint Sand Method (P)	Jul/62
Self-Fusing Silicone Tape (D)	Aug/72
Paint Masking Machine (P)	Sep/73
Caps and Plugs (M)	Sep/92
Pressure Sensitive Tapes (M)	Sep/95
Electroplating Mask (P)	Oct/79
Printed Circuit Tape (D)	Oct/86
Polyester Plating Tape (D)	Nov/94
Mask Assembly (P)	Nov/113
Paint Masking Device (P)	Nov/122

MASS FINISHING

Spindle Finishing Machine (P)	Jan/72
Tumbling Device (P)	Jan/72
Barrel Finishing Apparatus (P)	Jan/72
Automated Deburring (D)	Jan/88
Mass Finishing (M)	Jan/93
Technical Developments in 1986/ Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Vibratory Finishing (D)	Feb/104
Finishing Machine (P)	Mar/75
Vibratory Device (P)	Mar/75
Polyethylene Finishing Barrel (D)	Mar/80
Mass Finishing Device (P)	Apr/77
Bench Top Tumbling System (D)	Apr/87
Automatic Unloader for Vibratory Finishers (D)	Apr/90
Mass Finishing (M)	Apr/102
Deburring Machine (M)	Apr/102
Centrifugal Barrel Finishing Machine (D)	May/76
Vibratory Finisher (D)	May/79
Stainless Steel Finishing Media (D)	Jun/162
Vibratory Finishing (M)	Jun/180
Abrasive Flow Machining with Not-So-Silly Putty	Jul/27
Vibratory Finishing Device (P)	Jul/63
Steel Finishing Media (M)	Jul/74
Centrifugal Barrel Finishing (P)	Sep/79
Mass Finishing (D)	Sep/84
Vibratory Deburring and Finishing (D)	Sep/89

Unit Cost Calculator (M)	Sep/95
Plastic Finishing Media (D)	Oct/92
Mass Finishing (D)	Oct/101
Vibratory Finishing (M)	Oct/108
Chemically Accelerated Mass Finishing (D)	Nov/84
Vibratory Finishing (D)	Nov/88
Vibratory Deburring Media (M)	Nov/102
Vibratory Finishing Device (P)	Nov/115
Accelerating Magnetic Abrasive (P)	Nov/119

MEETINGS

1986 FSCT Meeting in Atlanta	Jan/49
Asia Pacific Interfinish Congress '86	Mar/94
Monterey Welcomes 18th Western Coatings Symposium	May/45
Surface Coating '87	May/59
SUR/FIN '87	Jun/15
AESF Golden West Regional Conference	Jun/205
AESF Eastern Canada Regional	Jul/68
Robotic Painting Symposium	Jul/69
AESF Strip Plating Symposium	Jul/70
Institute of Metal Finishing Annual Technical Conference	Aug/52

AF/P/SME's Finishing '87 Will Examine Finishing from Design to End Product	Sep/51
SurCar	Sep/98
Chicago Hosts SUR/FIN '87	Oct/41
Eleventh International Conference in Organic Coatings Science and Technology (B)	Oct/104
Radcure Europe '87 Conference Proceedings (B)	Oct/105
Finishing '87	Nov/36
Sunshine for the 1987 Federation of Societies for Coatings Technology Annual Meeting	Dec/43
ASEP Holds 20th Annual Meeting in Tucson	Dec/91

MISCELLANEOUS

Good Days & Bad Days in the Finishing Shop/Cost and Pricing— Purchase Orders	Jan/33
Paint Additive (P)	Jan/79
Software for Job Shops (D)	Jan/88
Finish Coating Wall Chart (M)	Jan/90
Heat Treating/Metal Finishing Systems (M)	Jan/94
Fiber Plating (P)	Feb/97
Plastic and Metal Finishing Equipment (M)	Feb/120
Plating Deep Pockets (P)	Mar/74
Coating System for Heat Sensitive Alloys (D)	Mar/80
Nylon, Polypropylene and Polyethylene Fittings (D)	Mar/80
Burn-In Oven (D)	Mar/82
Nickel Powder (D)	Mar/84
Ceramic Coating (M)	Mar/86
Polymer Blending System (M)	Mar/87
Deburring, Deflashing and Cleaning Services (M)	Mar/87
Concise Chemical and Technical Dictionary, Fourth Edition (B)	Mar/95
Autodeposition Post Rinse (P)	Apr/74
Dual Autodeposition Rinse (P)	Apr/74
Anode Mechanical Method of Deburring (D)	Apr/83
Escort Memory Module (D)	Apr/86
Ionized Air Blower (D)	Apr/91
Waterblasting System (D)	Apr/92
Industrial Plastic Products (M)	Apr/99
Plastic Piping Systems (M)	Apr/101
Ultrasonic Positioning Stabilizer (P)	May/67
Removing Static (S)	May/72

Drum Rotator (D)	May/76
Ultrasonic Liquid Level Sensors (D)	May/77
Air Bearings for Moving Heavy Loads (D)	May/77
Identification Markers (D)	May/77
Conductive Ceramics (D)	May/79
Cellular Deburring Center (D)	May/82
Flow Sensors (D)	May/84
Tantalum Coating (M)	May/86
Mechanical Galvanizing—An Improved Method for Zinc Coating Nails	Jun/99
Fouled Drill Bits (S)	Jun/140
Mini Flow Sensor (D)	Jun/159
Polyurethane Tubing (M)	Jun/190
Impeller-Type Flow Sensors (M)	Jun/191
Vertical Carousels for Inventory Control (M)	Jun/193
Identifying Hard Coating (S)	Jul/59
Coloring Brass (S)	Jul/60
Chemical Polishing of Silver (S)	Jul/60
Mechanical Plating Materials (P)	Jul/61
Immersion Tin Coating (P)	Jul/63
Technical Support for Industry (M)	Jul/73
Repairing Painted Surfaces (P)	Aug/62
Circuit Board Defluxer (D)	Aug/66
Ionized Air Gun (D)	Aug/66
Foam Control (M)	Aug/81
Color Case Hardening (S)	Sep/70
Electrodepositing Metal Silicides (P)	Sep/73
Electrochemical Machining Apparatus (P)	Sep/73
Metal Layer Patterning (P)	Sep/77
Codeposition Process (P)	Sep/78
Dry Film Lubrication (M)	Sep/92
Spray Nozzles (M)	Sep/93
Drum Handler (M)	Sep/94
Finishing Pointer/Soldering Fundamentals	Oct/63
Carbon Treatment (D)	Oct/91
Multifunctional Surfactants (D)	Oct/98
Computer Generated Plating Parameters (D)	Oct/100
Resin-Bonded Lubricant (D)	Oct/103
Centrifugal Fluid Recovery Equipment (M)	Oct/106
Surfactants (M)	Oct/107
Gas/Solid Separation System (M)	Oct/108
You Can Manage that Finishing Shop (B)	Nov/79
Obtaining Military Specs (S)	Nov/81
Woodgrain Pattern (S)	Nov/82
Carbon Cartridge Chamber (D)	Nov/84
Thermal Deburring (D)	Nov/95
Metal Finishing Software (D)	Nov/96
Liquid/Gas Separation (M)	Nov/98
Material Handling/Finishing Systems (M)	Nov/100
Chemical Delivery System (M)	Nov/100
Plating Nonmetallic Surfaces (P)	Nov/122
High Speed Plating (P)	Dec/70
Deburring Apparatus (P)	Dec/72
"Anti-Pollution" Clamp (D)	Dec/74
Digital Retrofit Package (D)	Dec/76
Specialty Chemicals and Services (M)	Dec/82
Chelating Agents (M)	Dec/83
Plasticware (M)	Dec/84

PAINT APPLICATION (Except Spray)

Coating Device (P)	Jan/79
Curtain Coating Apparatus (P)	Feb/99
Autodeposition Method (P)	Mar/97
Autodeposition Coating (P)	Apr/74
Autodeposition Finishing (M)	May/86
Curtain Coating Method (P)	Jun/177
Multi-State Autodeposition (P)	Aug/57
Wire Coating Method (P)	Sep/76

Power Brush Applicator (P)	Nov/114
Coating Apparatus (P)	Nov/125
Paint Coating Apparatus (P)	Dec/71

PAINT COATINGS

Acrylics:

Radiation Curable Acrylic (P)	Jan/74
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Acrylic Enamel Coatings System (D)	Feb/107
Acrylic Copolymer (D)	Mar/77
Acrylic System for Ambient-Crosslinked Coatings (D)	Jun/171
Acrylic Coating Composition (P)	Jun/185
Acrylic for Aluminum (P)	Aug/62
Vapor Curable Acrylic (P)	Aug/62
Flexible Coating Composition (P)	Sep/76
Acrylic Coating for Plastic (P)	Sep/81
Shrink Resistant Coating (P)	Oct/72
Acrylic Coating Composition (P)	Oct/79
Primer for Plastic (P)	Nov/108
Coating Composition (P)	Nov/110
Radiation Curable Coating (P)	Nov/110
Coating Composition (P)	Nov/123

Alkyds:

Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Coating Composition (P)	Feb/99
Air-dry Alkyd (P)	Feb/101
Alkyd Primer (D)	Apr/78
Alkyd Coating Composition (P)	Jun/179
Thermosetting Alkyd (P)	Jun/180

Epoxy:

Epoxy Resin Coating (P)	Jan/72
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Epoxy Resin Composition (P)	Feb/101
Epoxy Resin Coatings for Wear and Corrosion Resistance	Mar/65
Epoxy Coating Method (P)	May/68
UV-Cure Epoxy Coatings (M)	Jun/194
Thermosetting Epoxy (P)	Nov/118
Epoxy Primer (P)	Nov/120

Polyesters:

UV Curable Composition (P)	Jan/75
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/19
Baking Enamels (P)	Jun/179
UV Curable Thermoplastic (P)	Jun/187

Polyurethanes:

Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Coating Composition (P)	Mar/97
Rapid-Cure Coating (D)	Apr/88
Urethane Coating (D)	Jun/154
Polyurethane Topcoat (P)	Jun/185
Polyurethane Coatings (M)	Jun/191
Aliphatic Polyurethanes (D)	Aug/68
Vapor Cure Coating (P)	Nov/115

Vinyls:

Polyvinylidene Fluoride Lacquer (P)	May/69
Polyvinyl Fluoride Coating (P)	Jun/172
Polyvinyl Fluoride Coating (P)	Jun/179
Vinyl-Acrylate Paint Binder (P)	Sep/76
Vinyl Acetate Copolymers (P)	Oct/72
Container Coating (P)	Nov/118

Other:

Silicon Valley's Unique Painting Requirements	Jan/15
Color Plus Clear Coat (P)	Jan/79
Industrial Coatings (M)	Jan/95
Zinc-Rich Primer (P)	Jan/95
Paint for Porcelain (P)	Feb/99
Low-Temperature Baking Enamel (D)	Feb/102
Fluoropolymer Coating (D)	Feb/119
Black Coating (D)	Mar/79
UV/EB Cure Coatings (M)	Mar/89
Primer Composition (P)	Apr/72
Coil Coating Protection (D)	Apr/90
Side Striping Process (M)	Apr/98
Coatings for Aluminum Extrusions (M)	Apr/101
Corrosion Preventive Internal Fuel Tank Coatings	May/21
Corrosion Inhibiting Coating (P)	May/70
Zinc Modified Primer (D)	May/74
Synthetic Resins (M)	May/85
Enamel Finish (D)	Jun/142
Color Plus Clear Coat (P)	Jun/181
Multi-coat Paint System (P)	Jun/184
Conductive Coating (P)	Jun/185
Color Plus Clear Coat (P)	Jun/187
Coatings for Aircraft in Cold Weather Conditions	Jul/41
Fluoropolymer Coating (D)	Jul/65
Compliance Coatings (M)	Jul/74
Fluorocarbon Coating (P)	Aug/61
Primer for Difficult Substrates (D)	Aug/77
Metallic Topcoats (M)	Aug/79
Electroconductive Composition (P)	Sep/74
Copper Conductive Coating (P)	Sep/74
Reflecting Surface (P)	Sep/75
Polyurea Coating (P)	Sep/75
Air Dry Aluminum Coating (P)	Sep/79
Coating Composition (P)	Sep/79
Primer Coatings (D)	Oct/99
Hot Section Coating (M)	Oct/108
Protective Coatings (M)	Nov/101
Compliance Coatings (M)	Nov/102
Vapor Injection Curing Coatings (M)	Nov/103
Decorating Fluoropolymer (P)	Nov/114
Color Plus Clear Coat (P)	Nov/114
Color Plus Clear Coating System (P)	Nov/120
Color Plus Clear Coat (P)	Nov/124
Fluorocarbon Primer (P)	Nov/127
UV Curable Coating (P)	Dec/73

PAINT CURING

Light Curing System (D)	Jan/84
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Infrared Heating Module (D)	Feb/111
Walk-In Oven (D)	Mar/79
Paint Bake Oven (P)	Apr/77
Oven Control System (D)	Apr/78
Curing Method (P)	May/65
Infrared Oven (D)	May/78
Infrared Heater (M)	May/86
Truck Oven (D)	Jun/155
Paint Curing Control (D)	Jun/165
Oven Curing Monitoring Systems (D)	Jun/171
UV Curing Process (P)	Jun/173
UV Curing Apparatus (P)	Jun/174
Curing Additive (P)	Jun/176
Paint Drying Furnace (P)	Jul/63
Curing Oven (P)	Sep/73
Infrared Oven (P)	Sep/79
UV Lamp Control (P)	Sep/79
Infrared Ovens (M)	Sep/93
Measuring Paint Cure Quantitatively	Oct/27

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Curing Method (P)	Nov/108
Curing Oven with Solvent	
Recovery (P)	Nov/120
UV/EB Curing (M)	Dec/83

PEOPLE IN FINISHING

Owners	Feb/59
Supervisors	Mar/62
Platers	Apr/21
Managers	May/47
Foremen	Jun/127
Customers	Jul/51
Quality Control	Aug/19
Industrial Medical Doctor	Sep/33
Bank Loan Officer	Oct/32
Attorneys and Collections	Nov/21
Accountant and Chart of Accounts	Dec/62

PHOSPHATING

Technical Developments in 1986/

Organic Coatings, Processes and Equipment	Feb/39
Hot Dip Phosphating (S)	Feb/92
Phosphating Process (P)	Feb/98
Phosphate Seal Composition (P)	Mar/71
Effects of pH on Phosphating	Apr/45
Metal Phosphating Process (P)	Apr/75
Zinc Phosphate Method (P)	Apr/77
Iron Phosphates (D)	May/74
Phosphate Post Treatment (P)	Jul/62
Phosphating Method (P)	Jul/63
Multilayer Coating (P)	Aug/60
Chromium Phosphate Coating (P)	Oct/74
Zinc Phosphate Bath (P)	Oct/75
Zinc Phosphating Process (P)	Oct/76
Poor Phosphating (S)	Oct/82
Wash Primer vs Humidity (S)	Nov/81
Corrosion Protection for Steel (M)	Nov/98
Phosphated Steel Product (P)	Nov/108
Phosphate Bath (P)	Nov/109
Rinse After Phosphate (P)	Nov/109
Zinc Phosphate (P)	Nov/116
Phosphating Composition (P)	Nov/119
Phosphate Coating (P)	Nov/122

PICKLING, ETCHING & DESCALING

Dry Etching (P)	Jan/75
Aluminum Etch (P)	Jan/75
Etching Alumina (P)	Jan/75
Graining Steel Plates (P)	Jan/78
Coloring Stainless Steel Strip (P)	Jan/78
Sputter Etching (P)	Jan/95

Technical Developments in 1986/

Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Green Parts (S)	Feb/92
Adhesion on Soldered Parts (S)	Feb/92
Dry Etch Control (P)	Feb/97
Laser Etching (P)	Feb/97
Sputter Etching (P)	Feb/97
Dry Etching (P)	Feb/100
Iron Oxide Removal (P)	Feb/100
Continuous Plasma Etching (P)	Feb/101
Plasma Etching (P)	Mar/71
Patterning Method (P)	Mar/73
Plasma Etching Device (P)	Mar/75
Copper Etching (P)	Mar/97
Aluminum Alloy Printing Plate (P)	Apr/71
Dry Etching Process (P)	Apr/72
Copper Etching Method (P)	Apr/74
The Effect of Etching on the Morphology of Electrodeposited Gold	May/41
Dry Etching Method (P)	May/65
Deoxidizing Silver-Copper Alloy (P)	May/66
Metal Patterning Method (P)	May/68
Steel Activator (P)	May/70

Powdered Activator for Zinc (D)	May/74
Detergent for Acid Pickle Baths (D)	May/142
Chemical Polish for Steel (P)	May/187
Nickel Activator (S)	Aug/54
Dry Etching (P)	Aug/59
Measuring Etch Rate (P)	Aug/62
Roughening Printing Plates (P)	Aug/65

Thickness (P)	Aug/58
Automated Metal Finishing Systems (M)	Aug/81
Pulse Plating Method (P)	Sep/77
Plating Supplies (M)	Sep/94
Portable Electropolishing Apparatus (P)	Oct/75

POLISHING & BUFFING

Pencil Grinder (D)	Jan/85
Technical Developments in 1986/ Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Polishing Apparatus (P)	Feb/98
Grinding Wheel Control (P)	Feb/100
Abrasive Material (P)	Feb/100
Grinding/Finishing Disc (D)	Feb/111
Polishing Flap Wheel (D)	Feb/112
Ceramic Aluminum Oxide Discs (D)	Feb/118
Polishing Wheel (P)	Mar/71
Abrasive Fibers (P)	Mar/72
Coated Abrasive (P)	Mar/73
Wet Finishing Machine (D)	Mar/76
Rim Wheels (D)	Mar/78
Industrial Brushes (M)	Mar/89
Grinding Wheel (P)	Apr/71
Polishing Disc (P)	Apr/77
Grinding/Deburring (D)	Apr/84
Grinding Disc for Aluminum (D)	Apr/87
Finishing Wheels (D)	Apr/88
Coated Abrasive (P)	May/68
Belt Abrading (P)	May/69
Belt/Brush Machine (D)	May/77
Programmable Buffing Machine (D)	May/84
Abrasive Grinding Disc (D)	Jun/154
Abrasive Discs (D)	Jun/160
Coated Abrasive (P)	Jun/173
Internal Hole Grinder (P)	Jun/176
Metal Polishing Composition (P)	Jun/176
Deburring Method (P)	Jun/176
Surface Finishing Apparatus (P)	Jun/177
Surface Grinder (P)	Jun/177
Grinding Machine (P)	Jun/179
Belt Finisher (P)	Jun/182
Coated Abrasive (P)	Jun/185
Abrasive Disc (P)	Jun/187
Grinding Wheel (P)	Jun/187
Power Tools for Finishing (M)	Jun/190
Abrasives Newsletter (M)	Jun/191
Engineering—The Key to Buffing Aluminum	Jul/54
Polishing Apparatus (P)	Jul/63
Variable Orbital Drive (P)	Jul/63
Burnishing Magnetic Discs (P)	Jul/63
Grinding Wheel (P)	Jul/63
Abrasive Power Tools (M)	Jul/75
Surface Conditioning Products (D)	Aug/68
Contact Wheels (D)	Sep/85
Aluminous Oxide Abrasive (D)	Sep/91
Coated Abrasive (P)	Oct/74
Abrasive Finishing (D)	Oct/89
Depressed Center Grinding Wheels (D)	Oct/93
Abrasive Stone (D)	Nov/91
Brushes for Ultra-Fine Finishing (D)	Nov/95
Abrasive Specialties (M)	Nov/101
Grinding Method (P)	Nov/109
Polishing Machine (P)	Nov/111
Grinding Apparatus (P)	Nov/115
Polishing Apparatus (P)	Nov/116
Microfinishing Apparatus (P)	Nov/122
Polishing Turbine Blades (P)	Nov/126
Abrasive Particles (P)	Nov/127
Polishing Method (P)	Dec/70
Polishing Compound (P)	Dec/72
Buffing Apparatus (P)	Dec/73
Quick Change Deburring System (D)	Dec/78

Abrasive Belt Machine (M)	Dec/82
Buffing Compositions (M)	Dec/84

POWDER COATING

Mat Powder Coating (P)	Jan/72
Powder Coating (P)	Jan/72
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Automotive Applications for Powder Coating	Feb/77
Tube Coating Method (P)	Feb/98
Powder Coating Systems (M)	Mar/89
Powder Spray Gun (P)	Mar/97
Epoxy Powder Coating (P)	Apr/77
Powder Spray Nozzle (P)	Apr/77
Powder Spray Gun Cable (P)	Jun/173
Electrostatic Powder Recovery (P)	Jun/174
Powder Coating Bolts (P)	Jul/62
Spraying Powder (P)	Aug/58
Ultrasonic Spray Nozzle (P)	Aug/60
Powder Spray Nozzles (P)	Aug/63
Epoxy Powder (D)	Aug/74
P ³ TP—An Updated Formula for Quality Powder	Sep/15
Health and Safety Aspects of Powder Coatings	Sep/21
Tribio—A New Development in Powder Coating	Sep/37
Portable Powder Spray Booth (P)	Sep/73
Choice for Coating Filters (S)	Oct/82
Tribostatic Gun (D)	Oct/89
User's Guide to Powder Coating Second Edition (B)	Nov/79
Nylon Powder Coating (M)	Nov/99
Powder Coatings (M)	Nov/103
Powder Coatings (M)	Nov/103
Powder Coatings Color Chart (M)	Nov/103
Powder Coating (P)	Nov/124
Powder Distributor (P)	Dec/71
Powder Coating Method (P)	Dec/71
Powder Coatings (M)	Dec/83

POWER SUPPLIES

Automatic Voltage Regulator (D)	Jan/86
Rectifier Cables (D)	Feb/110
DC Power Supplies for Electrocoating (M)	Mar/86
Automatic Frequency Plating System (D)	Apr/84
Power Supply for Precious Metal Plating (D)	May/74
Electrostatic Power Supply (D)	Jun/145
Selective Plating Power Supply (M)	Jun/191
Rectifier and Process Controller (M)	Jun/191
Rectifier in Polypropylene Cabinets (M)	Jun/194
A Preventive Maintenance Program for Rectifiers	Aug/15
Electrostatic Power Supply (D)	Sep/82
DC Power Supplies (M)	Sep/94
Color Anodizing Power Supplies (M)	Nov/100
DC Power Supplies (M)	Nov/101

PRINTED CIRCUIT MANUFACTURING

Electroplating for Electronic Industry Applications	Jan/45
Circuit Board Processing (P)	Jan/95
Printed Circuit Board (P)	Feb/97
Plating Through-Holes (P)	Feb/97
Plating Through-Holes (P)	Feb/101
Desmear System (D)	Feb/102
Printed Circuit Board (P)	Mar/73
Printed Circuit Board (P)	Mar/74
Oxide Pretreatment (D)	Mar/79
Combined Cleaning and Coating	

Method (P)	Apr/71
PCB Equipment and Chemicals (M)	Apr/101
Solder-Plated Connector Pin (P)	Jun/172
High Resolution Printed Circuits (P)	Jun/174
Two-Sided Circuit Board (P)	Jun/174
Automatic Grinding Control (P)	Jun/180
Preserving Solder Plate (P)	Jun/182
Printed Circuit Board (P)	Jun/185
Printed Circuit Board (P)	Oct/72
Surface Mounted Assemblies (B)	Oct/104
Printed Circuit Board (P)	Nov/108
Fine Line Plating (P)	Nov/117
Plating Cell (P)	Nov/127
Plating Through Holes (P)	Dec/73

PUMPS AND MIXERS

Long-Coupled Chemical Pump (D)	Jan/80
Corrosion Resistant Pump (D)	Jan/88
Centrifugal Pump Seal (P)	Feb/98
Chemical Metering Pump (D)	Feb/112
Clamp Mount Mixers (D)	Feb/116
Corrosion Resistant Pump (D)	Feb/119
Long Coupled Pump Kit (D)	Feb/119
Plural-Component Material Handling Systems	Mar/51
Vacuum Pumping System (D)	Mar/81
Halar Drum Pump (D)	Apr/78
Air-Operated Pumps (D)	Apr/85
Portable Drum Lid Mixer (D)	Apr/91
Drum Transfer Pumps (M)	Apr/100
Agitators and Mixers (M)	Apr/102
Oil-Free Vacuum Pumping (M)	Apr/104
Metering Pump (D)	May/80
Chemical Transfer Pump (D)	Jun/145
Chemical Feed System (D)	Jun/148
Remote Control Metering Pump (D)	Jun/168
Centrifugal Pumps (M)	Jun/190
Portable Mixers (M)	Jun/193
Sealless Pumps (M)	Jul/75
Industrial Pumps (M)	Jul/75
Electronic Brightener Feeder (M)	Jul/75
Centrifugal Pumps (D)	Aug/66
Chemical Feed and Delivery System (D)	Aug/70

Self-Priming Pump for Chemical Leaks and Spills (D)

Sealless Drum Pump (D)	Aug/75
Pumps and Filters (M)	Aug/80
Portable Pump and Filter (D)	Sep/88
Diffusion Pump (M)	Sep/95
Fluid Handling (M)	Sep/95
Automatic Feeder Control (D)	Oct/88
Paint Pump (D)	Oct/94
Drum Mixer (D)	Oct/99
Pressure Switch for Pumps (D)	Oct/103
Sealless Magnetic Drive Pump (D)	Nov/97
CPVC Vertical (D)	Dec/74
Manual Pump for Acids (D)	Dec/81
Pumps and Valves (M)	Dec/82
Liquid Metering Systems (M)	Dec/84

RACKS AND BASKETS

Titanium Anodizing Basket (D)	Jan/80
Aluminum Anodizing Rack Clips (D)	Jan/85
Racking Tool (D)	Feb/102
Painting Rack (P)	Mar/73
Titanium Racks (D)	Mar/81
Stainless Steel Plating Rack (D)	Oct/90
PlastiSol (P)	Nov/110
Workpiece Holder (P)	Nov/118

RINSING

Portable Deionization for Rinsewater Needs	Mar/37
Counterflow Spray Rinse (P)	Jun/185
Ultrasonic Spray Nozzle (P)	Aug/60
Finishing Pointer/Half-Life Rinsing	Sep/47

Experimental and Computer- Simulated Rinses	Nov/59
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SAFETY

Safety Platforms (M)	Jan/94
Chemical Spill Clean-up (D)	Apr/92
Spill Clean-Up Kits (M)	Apr/100
Industrial Safety Products (M)	May/86
OSHA Recordkeeping Requirements	Jun/107
Nonmetallic Corrosives Cabinet (D)	Jun/163
Safety Guidelines for Work Areas (M)	Jun/193
Safety Supplies and Equipment (M)	Aug/80
Health and Safety Aspects of Powder Coatings	Sep/21
Safety Products (M)	Oct/107
Right-to-Know Information Holder (D)	Nov/88
Emergency Eye-Wash Station (D)	Nov/97
Toxic Gas Detectors (M)	Nov/99
MSDS Guide (M)	Nov/103
Fire Detection System (P)	Nov/116
Gas/Vapor Detection (D)	Dec/74
Protective Clothing (D)	Dec/76
Environment Monitor (D)	Dec/81

SELECTIVE PLATING

Continuous Strip Plating Electronic Components—Part I	Jan/29
Nickel Brush Plating (M)	Jan/92
Technical Developments in 1986/ Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Continuous Strip Plating Electronic Components—Part II	Feb/65
Selective Plating (P)	Feb/97
Electrochemical Metallizing (B)	Feb/129
Selective Brush Plating (P)	Mar/71
Brush Plating (M)	Mar/88
Auto-Selective Plating Method (P)	Apr/77
Brush Plating (M)	Apr/104
Selective Plating Apparatus (P)	May/67
Selective Plating Method (P)	Jul/61
Selective and High Speed Plating Machines (M)	Aug/79
Selective Deposition (P)	Oct/72
Selective Plating Apparatus (P)	Nov/113
Spot Plating Apparatus (P)	Nov/122

SOLVENT RECOVERY

Transatlantic Letter/Waste Recovery	May/37
Parts Washer Solvent Reclaimer (D)	May/76
Solvent Reclaimer (D)	May/81
Solvent Recovery (D)	Jun/171
Solvent Reclaimers (M)	Jun/191
Closed-Loop Absorption for Solvent Recovery	Nov/53
Solvent Reclaimer (D)	Nov/92
Solvent Distillation (M)	Nov/98
Solvent Recovery (M)	Nov/102

SOLVENTS

Solvent Selector Chart (M)	Apr/65
Coatings Solvents (M)	Sep/95

SPRAY BOOTH MAINTENANCE

Spray Booth Coating (D)	Jan/80
Strippable Spray Booth Coating (D)	Jan/80
Spray Booth Sheeting (D)	Mar/82
Cleaning Paint Booth Grating (D)	May/82
Biocide for Paint Spray Booths (D)	Jun/155
Optimizing Spray Booth Operations	Aug/23
Conversion Grid for Spray Booths (D)	Nov/93
Paint Booth Maintenance (D)	Nov/100
Liner for Paint Booth Grating (P)	Nov/109
Removing Paint Over-spray (P)	Nov/125

Booth Overspray Paper (D)	Dec/80
SPRAY PAINTING	
Computerized Spray Machine (P)	Jan/72
Continuous Coating System (P)	Jan/72
Paint Flow Controller (P)	Jan/72
Paint Booth (P)	Jan/73
Rotary Painting Device (P)	Jan/73
Automatic Spray Painting (M)	Jan/93
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Combination Spray Booth (P)	Feb/98
Painting System (P)	Mar/75
Siphon Cup (D)	Mar/83
Automobile Fascia Finishing System (M)	Mar/88
Spray Coating System (P)	Apr/72
Spray Device (P)	Apr/77
Powder/Liquid Spray Gun System (M)	Apr/99
Pain Booth Assembly (P)	May/65
Electrostatic Spray Gun (D)	Jun/154
Mobile Turbine Spray System (D)	Jun/162
Rotary Atomizer (D)	Jun/163
Spray Booth (P)	Jun/173
Robotic Finishing System (P)	Jun/173
Spray Gun (P)	Jun/181
Electrostatic Spray Device (P)	Jun/181
Electrostatic Spray Gun (P)	Jun/185
Air-Feed Spray Booth (P)	Jun/187
Electrostatic Spraying (P)	Aug/58
Electrostatic Painting Apparatus (P)	Aug/62
All-Electric Painting Robot (D)	Aug/70
Photoelectric-Eye-Controlled Finishing System (D)	Aug/77
Electrostatic Spray Nozzle (P)	Sep/76
Spray Booth (P)	Sep/77
Electrostatic Spray Guns (D)	Sep/84
Spray Booth (D)	Sep/90
Painting System (P)	Oct/75
Paint Gun Tip (P)	Oct/75
Paint Spray Assembly (P)	Oct/75
Electrostatic Bell with Air Bearing Turbine (D)	Nov/87
Portable Sprayer (D)	Nov/97
Electrostatic Spray Cut-off (P)	Nov/108
Electrostatic Spray Device (P)	Nov/111
Coating Apparatus (P)	Nov/113
Airless Spray Device (P)	Nov/116
Robot Spray Gun (P)	Nov/118
Leak-free Spray Coater (P)	Nov/120
Electrostatic Indicator for a Spray Gun (P)	Nov/122
Centrifugal Atomizer (P)	Nov/124
Sprayer Pump (P)	Nov/125
Electrostatic Spraying (P)	Nov/126
Spray Booth (P)	Dec/71
Plasma Spray Nozzle (P)	Dec/71
Spray Gun Reciprocator (D)	Dec/74
Spray Painting Robot (D)	Dec/74
Air Assisted/Airless Spray Gun (D)	Dec/79
Electric Painting Robot (D)	Dec/79
STRIP PLATING	
Continuous Strip Plating Electronic Components—Part I	Jan/29
Technical Developments in 1986/ Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Continuous Strip Plating Electronic Components—Part II	Feb/65
Zinc Plated Strip (P)	Mar/74
Electrolytic Strip Processing (P)	Mar/97
Electrogalvanized Steel Strip (P)	Apr/71
Strip Plating Apparatus (P)	Apr/72
Strip Plating Device (P)	May/66
Plated Steel Strip (P)	May/67

Composite Plated Strip (P)	Jun/182
Strip Plating (P)	Jun/184
Composite Plated Sheet (P)	Jul/61
Contact Roll for Metal Strip (P)	Aug/63
Contact Roll for Strip (P)	Sep/73
Nickel-Zinc Plated Strip (P)	Sep/77
Radial Strip Cell (P)	Oct/72
Plating Strip and Reel-to-Reel (M)	Oct/105
Scale-Up of Processes for High Speed Strip Plating	Nov/41
Endless Belt Plating Device (P)	Dec/70
Selective Plating Apparatus (P)	Dec/70
Tin-free Steel Strip (P)	Dec/72
Selective Plating Apparatus (P)	Dec/72
STRIPPING	
Metal:	
Stripping Aluminum Diffusion Layers (P)	Jan/78
Technical Developments in 1986/ Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Finishing Pointer/Stripping of Tin from a Copper Alloy	Mar/19
Brass/Copper Stripper (D)	Mar/83
Noncyanide Metal Stripper (D)	Apr/84
Noncyanide Nickel Stripper (D)	Apr/90
Electroless Nickel Strip (P)	Jun/177
Cyanide Strip Restoration (P)	Jun/182
Stripping Oxide from Glass (S)	Jul/59
Noncyanide Nickel Stripper (D)	Jul/65
Strip for Nickel and Nickel-Iron (P)	Sep/75
Electrolytic Stripper for Silver (D)	Oct/88
Electrolytic Strip (P)	Nov/117
Tin-Lead Strip (P)	Dec/70
Nickel Stripper (D)	Dec/81
Paint:	
Paint Stripping Foam (P)	Jan/77
Paint Stripper (P)	Jan/78
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Paint Stripper (D)	Feb/102
Heat Cleaning Ovens (D)	Mar/78
Fluidized Bed Paint Stripping (M)	Apr/98
Paint Stripper Composition (P)	May/69
Paint Stripping from Metal Substrates (D)	Jun/155
Paint Stripper (P)	Jul/78
Salt Bath Paint Stripping (M)	Sep/94
Liquid Paint Stripper (D)	Oct/93
Paint and Seal Stripper (D)	Oct/99
Paint Stripping Furnaces (M)	Nov/99
Stripping Composition (P)	Nov/120
Resists:	
Resist Stripper (P)	Jan/73
Etch Resist and Stripper (D)	Feb/112
Stripping Polyimide (S)	Mar/68
Etch Resist (P)	Nov/108
Electrocoated Resist (P)	Nov/109
TANKS AND LININGS	
Tanks, Linings and Fume Handling Systems (M)	Mar/87
Custom Fluoropolymer Products (M)	May/85
Transport Tanks (D)	Jun/153
Tanks with Covers (D)	Jun/159
Chemical Treatment Chamber (P)	Jun/181
Reining Vibratory Equipment (M)	Jun/191
Polypropylene Tanks (M)	Sep/94
Air-Dry Plastic—An Evolving Coating Material	Oct/37
TESTING ANALYSIS AND CONTROL	
Baths:	
Acid Copper Control (P)	Feb/97
Electroless Plating Control (P)	
Solution Controllers/Replenishment Systems (D)	Feb/102
Gornall Cell (D)	Feb/119
Electroless Bath Monitor (P)	Mar/71
Printed Circuit Bath Analysis (P)	Mar/73
Liquid Colorimeter (D)	Mar/81
Monitoring Trace Components (P)	Mar/97
Whiskers or Dendrites (S)	Apr/68
Gold Complex Determination (P)	Apr/72
Automatic Solution Controller (D)	Apr/78
Control of Precious Metal Plating Baths Using Electrogravimetric Analysis	May/31
Gold Plating Bath Analyzer (D)	May/83
Electrodeless Conductivity Meter (D)	Jun/148
Analytical Instruments (D)	Jul/65
Plating Bath Analyzer (D)	Jul/65
Nickel Plating Bath Analysis (M)	July/75
Electrochemical Analysis (P)	Aug/63
Free and Total Acid Analyzer (D)	Aug/66
Cupping Test Machine (D)	Aug/74
Solvent Cleanliness Monitor (D)	Aug/78
Chemical Analyzer (D)	Sep/87
XRF—Not Just for Thickness Testing	Oct/23
Control of Additives in Acid Copper Plating	Oct/67
Solution Analysis (D)	Oct/89
Finisher's Feedback	Nov/18
Plating Bath Analyzer (D)	Nov/84
UV/IR Bath Analyzer (D)	Nov/86
Solution Analysis (M)	Nov/98
Ion Chromatographic Analysis of Cyanide	Dec/15
Coatings:	
Testing Lacquer (S)	Jan/69
Measuring VOC Content (S)	Jan/69
Applications of Electron Microscopy in Metal Finishing	Apr/23
Rupture Testing of Copper	Apr/29
Portable Glossmeter (D)	Apr/82
Defects in the Finish of Motor Cars	May/15
Portable Glossmeter (D)	May/80
Bench Top Panel Sprayer (D)	Jun/142
Coating Lab Products (M)	Aug/79
Digital Hardness Testing (D)	Sep/89
Adhesion Testing (S)	Oct/84
Testing of Metallic and Inorganic Coatings—STP 947 (B)	Oct/104
Paint Hardness (S)	Nov/81
Hardness of Anodized Aluminum (S)	Nov/81
Testing Adhesion (S)	Nov/81
Test Panel Spray Machines (D)	Nov/90
Testing Apparatus (P)	Nov/115
Color:	
Color and Appearance Measurements (M)	Jan/93
Remote Color Control (D)	Feb/107
Spectrocolorimeters (M)	Mar/88
Spectrocolorimeter (M)	Aug/80
ASTM Standards on Color and Appearance Measurement (B)	Oct/103
Detecting Color Differences (P)	Nov/120
Color Matching Process (P)	Dec/73
Corrosion:	
Design for Finishing/Corrosion—Part IX Testing for Stress Corrosion	Jan/61
Weather Testing of Materials (M)	Jan/90
Design for Finishing/Corrosion— Hydrogen Embrittlement	Feb/63
Electrode Rotator (D)	Feb/104
Defects in the Finish of Motor Cars	May/15
Electrochemistry and Corrosion: Overview of Techniques (M)	May/89

Corrosion Test Failure (S)	Jun/138
Corrosion Test Cabinets (D)	Aug/72
Galvanic Corrosion Indicator (D)	Aug/78
Accelerated Weathering (D)	Sep/86
Environmental Test Chambers (M)	Nov/102
Outdoor Testing (M)	Nov/103
Finishing Pointer/Atmospheric Corrosion Test	Dec/21

pH:

pH Recorder (D)	May/78
pH/Ion Meter and Calibrator (D)	May/80
Monitor/Controller for pH (D)	Jun/162
pH and Conductivity/TDS Meters (M)	Jun/190
Finisher's Feedback/pH and Bath Control	Aug/31
pH Electrode/Holder (D)	Aug/72
pH Recorder/Printer (D)	Aug/73
pH Papers (M)	Aug/80
pH/ORP Measurement (D)	Sep/82
pH Meters (D)	Oct/86
pH Analyzer (D)	Oct/101
pH/ORP Monitors (M)	Oct/106
Solar Powered pH Meter (D)	Dec/74

Thickness:

X-Ray Fluorescence Measurement (D)	Jan/80
PC Board Preparation (D)	Jan/82
Coating and Thickness Measurement (D)	Jan/84
Coating Thickness Gauge (M)	Jan/87
Coating Thickness Measurement (M)	Jan/90
Polishing Accessory for PC Boards (D)	Feb/105
Portable Statistical Data Analyzer (D)	Feb/106
Coating and Plating Thickness Measurement (M)	Mar/86
Coating Thickness Gauge (D)	Apr/80
Copper Thickness Measurement (D)	Apr/86
X-ray Thickness Measurement (M)	Apr/103
Copper Thickness on Stainless (S)	Jun/140
Coating Thickness Measurement (D)	Jun/142
Coating Analyzer (D)	Jun/160
Coating Thickness Tester (D)	Jun/168
Thickness Testing Device (P)	Jun/177
Thickness Testing Apparatus (P)	Jul/63
Coating Thickness Gauge (D)	Aug/71
Plating Thickness Monitoring (M)	Aug/79
Coating Thickness Gauge (D)	Sep/90
Film Thickness and Composition (M)	Sep/94
Thickness Measurements of Noncyanide Zinc Deposits	Oct/15
Thickness Tester for Chrome (D)	Oct/86
Coating Thickness Measurement (D)	Oct/92
Eddy Current Test Instrument (D)	Oct/94
Hand-Held Coating Thickness Tester (D)	Nov/94
Coating Thickness Gauge (M)	Nov/98
Coating Thickness Measurement (M)	Nov/99
Layer Measurement (M)	Nov/102
Thermal Analyzer (P)	Nov/118
Probe for Metal Analysis (P)	Nov/126
Chromium Coating Analyzer (D)	Dec/77
Eddy Current Test Instrument (M)	Dec/83

Water and Wastewater:

Digital pH and Conductivity/TDS Meter (I)	Feb/102
Well Sampling System (D)	Feb/104
Conductivity Monitor (D)	Feb/115
Sludge Depth Meter (D)	Mar/85
Effluent Sampler (P)	Mar/97
Conductivity Sensors and Instruments (M)	Apr/103
Conductivity/TDS Meter (D)	Jun/166
Sludge Depth Meter (M)	Jun/190

Electrolytic Conductivity Analyzer (M)	Jun/194
Free Cyanide Test (D)	Nov/93
Ion Chromatographic Analysis of Cyanide	Dec/15

Other:

Measuring Current Density (P)	Jan/77
Tank Leak Detector (D)	Jan/83
Portable Glossmeter (D)	Jan/83
Vision Inspection Unit/Large Area Screen Printer (D)	Jan/85
DOI Meter (M)	Jan/94
Acid Identification (S)	Jan/102

Technical Developments in 1986/

Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
On-Line Monitoring Instruments (M)	Feb/122

Technical Developments in 1986/

Organic Coatings, Processes and Equipment	Feb/39
UV Monitor (P)	Mar/75

Viscosity Controller (D)

Liquid Level Switch (D)

Methylene Chloride Detector Tube (D)

Dial Flowmeters (D)

Testing and Measurement (M)

Testing Instruments (M)

Lab Chemicals, Supplies and Services (M)

Solvent Vapor Monitoring (M)

Nondestructive Inspection (P)

Materials Testing Supplies (M)

Viscosity Cups (M)

Viscosity Control for Coatings (M)

Test Instruments and Controls (M)

Hydrogen Cyanide Monitor (D)

Powder Coating Resistivity Meter (D)

Digestion Process (P)

Stress Monitoring Apparatus (P)

Circuit Board Test (P)

Surface Roughness Measurements (P)

Thin Film Inspection Booth (P)

Electroless Bath Monitor (P)

Hardness Testing Equipment (M)

Ultrasonic Level Control (M)

Identifying a Plated Deposit (S)

Flow Transmitter (D)

Pneumatically Actuated Valves (D)

Organic Vapor Dosimeter (D)

Temperature Recording Decal (D)

Infrared Thermometers for Plastic Coatings (D)

Measuring, Inspection and Quality Control (M)

Scratch Hardness Tester (D)

Instrumentation for Coatings (M)

Process Monitors and Controllers (M)

Ampere Min/Hr Meter (D)

Paint Process Monitoring (D)

Surface Tension Measurement (D)

Paint Cure Analysis (D)

Stress Measurement (P)

Throwing Power

PCB Inspection (D)

THERMAL SPRAY COATINGS

Arc Vapor Deposition (P)

Cold Galvanizing Spray (D)

Powder for Thermal Spray Coatings (D)

Robotic Coating Service (M)

Technical Developments in 1986/

Inorganic "Metallic" Finishes, Processes and Equipment

Plasma Spray Method (P)

Arc Metal Spray Device (P)

Thermal Spray Coating (P)

Plasma Spray Systems (M)

Flame Spray Method (P)

Flame Spray Method (P)

Plasma Coating Method (P)

Plasma Spray Gun (P)

Flame Sprayed Ferrous Alloy (P)

Flame Spraying Aluminum (P)

Arc Spray System (P)

Detonation Coating (P)

Multiple Torch Plasma Spray (P)

Flame Spray Gun (P)

Hot Spray Process (P)

Wear Resistant Surface (P)

Plasma Spray Coating (P)

Thermal Spray Powder (P)

Plasma Spray Method (P)

Flame Spraying Method (P)

Detonation Coating Apparatus (P)

Thermal Spray Powders (M)

VACUUM DEPOSITION

High Vacuum Equipment for

Compact Disc Coating

Plasma Coating (P)

Ion Beam Evaporation Source (P)

Sputtering Target (P)

Chemical Vapor Deposition (P)

Sputtering System (P)

Vacuum Coating (P)

Plasma Treatment of Discs (P)

Technical Developments in 1986/

Inorganic "Metallic" Finishes, Processes and Equipment

Electron Beam Gun (P)

Sputtering Device (P)

PVD Electrode (P)

Low Pressure CVD (P)

Sputtering Target (P)

Magnetron Plasma Reactor (P)

Laser/Plasma Processing (P)

Scanning Beam Gun (P)

Chemical Vapor Deposition (P)

Sputtering Target (P)

Plasma Confining Apparatus (P)

Plasma Deposition Method (P)

Magnetic Film Coating (P)

Sputtering Apparatus (P)

Vacuum Deposition Process (P)

Planar Magnetron Sputtering (P)

Ion Implantation (P)

Vacuum Coating Apparatus (P)

Vapor Deposition Process (P)

CVD Temperature Control (P)

Device for Vapor Deposition (P)

CVD Plasma Reactor (P)

Multi-evaporation Apparatus (P)

Vacuum Coating (P)

CVD Apparatus (P)

High Voltage Vacuum Coating (P)

Chemical Vapor Deposition Mixture (P)

Sputter/Etching System (P)

Chemical Vapor Deposition (P)

Sputtering System (M)

Vacuum Deposition System (P)

CVD Reactor (P)

CVD Heat Source (P)

Ion Implantation Apparatus (P)

CVD Wafer Boat (P)

Ion Plated Coating (P)

Combined Hot Dipping & Vacuum Deposition (P)

Metal Finishing

Deposition (P)

Glow Discharge Apparatus (P)

Sputtering Apparatus (P)

Vacuum Coating Device (P)	Jun/179
Plasma CVD Apparatus (P)	Jun/181
CVD Apparatus (P)	Jun/182
Vapor Deposition Device (P)	Jun/184
Sputtering Cathode (P)	Jun/185
CVD Device (P)	Jun/187
Vacuum Deposition Device (P)	Jul/61
CVD Chamber Cleaner (P)	Jul/63
Sputtering Target (P)	Aug/57
Plasma Enhanced CVD (P)	Aug/60
Sputtering Cathode Assembly (P)	Aug/63
Vacuum Metalizer (D)	Aug/77
Compact Disc Metalizer (M)	Aug/79
Vacuum System Control (M)	Aug/80
Multilayer Sputtering (P)	Sep/73
Sputtering Target (P)	Sep/74
Sputtering Apparatus (P)	Sep/75
Ion Implantation Device (P)	Sep/81
Sputtered Magnetic Coating (P)	Sep/81
Sputtering Metal Oxide (P)	Oct/72
Ion and Vapor Deposition (P)	Oct/72
Magnetron Enhanced CVD (P)	Oct/75
Activator for Hard Chrome (P)	Oct/75
Sputtering Target (P)	Oct/76
Sputtering Device (P)	Oct/78
Titanium Nitride Coating Process (D)	Oct/103
Plasma CVD (P)	Nov/110
Vacuum Arc Deposition (P)	Nov/111
Sputtering Device (P)	Nov/111
Sputtering Apparatus (P)	Nov/111
Vacuum Coater (P)	Nov/112
Sputtering Apparatus (P)	Nov/112
Sputtered Cathode (P)	Nov/112
Vacuum Coater (P)	Nov/113
CVD Apparatus (P)	Nov/113
Engraved Antireflection Coating (P)	Nov/114
Vacuum Coating Strip (P)	Nov/114
Chemical Vapor Deposition (P)	Nov/115
Chemical Vapor Deposition (P)	Nov/121
Ion Implantation Process (P)	Nov/123
Plasma Treatment System (P)	Nov/124
Sputtering Process (P)	Nov/126
Vacuum Coating System (P)	Nov/126
Sputtering Cathode (P)	Dec/70
Vacuum Coater (P)	Dec/72
Sputtering Target (P)	Dec/72

VENTILATION & AIR POLLUTION CONTROL

Solvent Removal System (P)	Jan/95
Tube Axial Duct Fans (D)	Feb/114
Dust Collector (M)	Feb/120
Dust Collector (D)	Mar/76
Regenerative Blowers (D)	Mar/83
Fume Scrubbers (M)	Mar/89
Mini-Scrubber For Lab Hoods (D)	Apr/82
Dust Collector (D)	Apr/89
Getting Into Compliance with California's Air Pollution Laws for Industrial Coatings	Apr/112
Regenerative Blowers (M)	May/85
Control of Flammable Solvents in Ovens (M)	May/85
Dust Collector Bags (D)	Jun/166
Regenerative Blower/Gas Mover (M)	Jun/190
Cast Aluminum Pressure Blowers (M)	Jun/194
Fume Scrubbers (M)	Jun/194
Oil Mist Collector (D)	Aug/68
Corrosion Resistant Fans (M)	Oct/108
Dust Collector (M)	Nov/101
Solvent Absorption System (P)	Dec/71
Cyclone Dust Collectors (D)	Dec/77

WASTE RECOVERY

Zinc Recovery Method (P)	Jan/75
Electrolytic Silver Recovery (P)	Jan/77

Electrowinning Electrode (P)	Jan/77
Atmospheric Evaporator (M)	Jan/93
Electrowinning System (M)	Jan/93
Technical Developments in 1986/ Inorganic "Metallic" Finishes, Processes and Equipment	Feb/15
Technical Developments in 1986/ Organic Coatings, Processes and Equipment	Feb/39
Metal Recovery (D)	Feb/114
Electrowinning/Electrochemical Cell (P)	Feb/72
Ion Exchange Module (D)	Apr/81
Transatlantic Letter/Waste Recovery	May/37
Electrolytic Recovery Device (P)	May/69
Metal Recovery System (D)	May/74
Metal Recovery (D)	May/79
Ion Exchange System (D)	May/84
Evaporative Recovery (D)	Jun/162
Lead Recovery (P)	Jun/180
Metal Recovery Process (P)	Jun/184
Make Pollution Prevention Pay	Jul/23
Strip Plating Device (P)	Jul/61
Gold Recovery (P)	Jul/63
Electrolytic Cell (P)	Aug/57
Electrowinning Electrode (P)	Aug/63
Heavy Metal Recovery by Crystallization (D)	Aug/77
Precious Metal Recovery Cartridge (P)	Sep/73
Electrowinning Anode (P)	Sep/73
Etch and Pickle Recovery (P)	Sep/74
Silver Recovery (P)	Sep/79
Recycling Metallic Wastes (M)	Sep/92
Metal Recovery Systems (M)	Sep/93
Gold Recovery Process (P)	Oct/77
Waste Treatment—Evaluating Black Boxes, Miracle Machines and Useful Tools	Nov/25
Recovery of Heavy Metals by Crystallization	Nov/31
A Gas Membrane-Ion Exchange Process for Cyanide Recovery	Nov/47
Ion Exchange (D)	Nov/84
Copper Recovery Systems (D)	Nov/91
Evaporator System (M)	Nov/102
Solder Strip Regeneration (P)	Nov/109
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